

CLAIMS

1. An insulator to be disposed in an armature core having a plurality of radially-formed salient poles,

the insulator characterized in being formed to position a winding disposed on a first layer which is a most inner side in a radial direction of the armature core approximately at a middle between the salient poles among the windings wound on the salient poles.

2. The insulator according to Claim 1, further comprising an approximately V-shaped winding aligning portion which gets narrower from an outer side to an inner side in the radial direction of the armature core approximately at the middle between the salient poles.

3. An insulator to be disposed in an armature core having a plurality of radially-formed salient poles, the insulator characterized in:

being formed to have an approximately V-shaped winding aligning portion which gets narrower from an outer side to an inner side in the radial direction of the armature core approximately at the middle between the salient poles;

the winding aligning portion being formed such that two slant faces thereof meet at an angle from approximately 45 degrees to approximately 75 degrees; and

being formed to position a winding disposed on a first layer which is a most inner side in a radial direction of the armature core approximately at a middle between the salient poles among the windings wound on the salient poles.

4. The insulator according to Claim 2 or 3, further characterized in the winding aligning portion is formed to be able to align the windings on at least two layers at the most inner side in the radial direction of the armature core.

5. The insulator according to any one of Claims 2 to 4, the insulator further characterized in being formed to be able to align the windings of which diameters are approximately 0.9 mm.

6. The insulator according to any one of Claims 2 to 5, further characterized in that a center angle of the slot in the insulator is larger than an angle at which two slant faces of the winding aligning portion meet in cases a number of the slots of the insulator is smaller than or equal to six and smaller than the angle at which the two slant faces of the winding aligning portion meet in cases the number of the slots of the insulator is larger than six.

7. The insulator according to any one of Claims 2 to 6, further characterized in that the winding aligning portion is formed so that two slant faces meets approximately at 60 degrees.

8. An armature characterized in incorporating the insulator according to any one of Claims 1 to 7.

9. A rotary electric machine characterized in incorporating the armature according to Claim 8.